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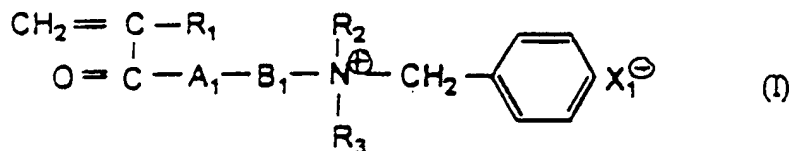
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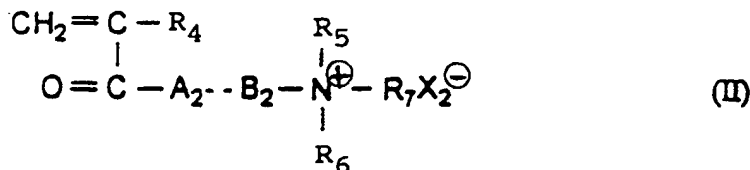
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**26.07.95 Bulletin 95/30**(71) Applicant: **NALCO CHEMICAL COMPANY**  
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**D-81679 München (DE)**(54) **An improved process for the preparation of water soluble polymer dispersion.**

(57) The present invention is particularly useful in preparing a water soluble polymer dispersion. According to one preferred embodiment of the invention, the dispersion is prepared by polymerizing a water soluble mixture of from about 15 to about 30% percent by weight of a cationic monomer represented by the following general formula (I):



where  $\text{R}_1$  is either hydrogen or  $\text{CH}_3$ ;  $\text{R}_2$  and  $\text{R}_3$  are each an alkyl group having 1 to 3 carbon atoms;  $\text{A}_1$  is either an oxygen atom or  $\text{NH}$ ;  $\text{B}_1$  is either an alkylene group having 2 to 4 carbon atoms or a hydroxypropylene group, and  $\text{X}_1^-$  is an anionic counterion, and/or a second cationic monomer represented by the following general formula (II):



where  $\text{R}_4$  is either hydrogen or  $\text{CH}_3$ ;  $\text{R}_5$  and  $\text{R}_6$  are each an alkyl group having 1 to 2 carbon atoms;  $\text{R}_7$  is a hydrogen atom or an alkyl group having 1 to 2 carbon atoms;  $\text{A}_2$  is either an oxygen atom or  $\text{NH}$ ;  $\text{B}_2$  is either an alkylene group having 2 to 4 carbon atoms or a hydroxypropylene group and  $\text{X}_2^-$  is an anionic counterion; and

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(meth)acrylamide in an aqueous solution of from 17 to about 19 percent by weight of a polyvalent anionic salt.



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## EUROPEAN SEARCH REPORT

Application Number  
EP 94 11 9536

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
D, A	EP-A-0 364 175 (KYORITSU YUKI CO. LTD.) ----		C08F220/56 C08F220/34 C08F220/60
A	EP-A-0 248 519 (PETROLITE CORP.) -----		
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			C08F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11 May 1995	Examiner Cauwenberg, C
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document			



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